

Photovoltaic Checklist

Department of Development Services | Building & Safety Bureau 411 W. Ocean Blvd., 2nd Floor, Long Beach, CA 90802 (562) 570-7648 longbeach.gov/lbds

Plan Review Checklist for

PhotoVoltaic System Installations

All of the following items must be included on the required plan sheets prior to issuance of any/all permits:

roje	Ct #	Address		
] Prov	vide 3 sets of plans, stamped and signed by th	ne *responsible partv on minimum	
		x 24" paper.	to the second of	
		sponsible party: State of California licensed are sign build C-10, C-46 or the single family/duple		
г	l Prov	vide a complete plan view drawing. Include:		
	∃ a.) A	Array rooftop layout. Indicate the overall heigh grade level.	nt of the installation, referenced from	
	∃ b.) Ā	All raceway runs, cable runs, combiner boxes, nverters, subpanels, utility electrical service, e		
	c.) If	f the system is a <i>"ground mount"</i> system, prov blan.		
] Prov	vide a complete single line schematic drawing	. Include:	
		Photo voltaic panels/arrays, raceway runs, cab poxes, disconnects, inverters, subpanels, utility		
		ndicate the quantity of photovoltaic modules in		
	,	ndicate how the modules and arrays are electi series and/or parallel circuitry.	rically configured with regards to	
		All raceway and conductor sizes, types and qu		
		All disconnecting and overcurrent device rating		
L		The buss amperage ratings of the utility service hat will conduct the PhotoVoltaic AC power co		
	∃ h.) A	All system grounding. Include all grounding electrode conductor size(s) and type(s), location	ectrode(s) to be used, grounding	
		erminations, etc.		
		MPORTANT: The code required PhotoVolta shall be routed separately from all other co		
☐ Provide a plan note requiring all code required signage.				
	☐ Provide a highly visible plan note stating the polarity of the DC grounded conductor.			

Descride the abote relation equipment require	unale conseification about on the plant			
☐ Provide the photovoltaic equipment manufacture (not attached 8 ½" x 11")	ire's specification sneets on the plans .			
Verify inclusion of all information below:	Distance Maria Maria			
<u>Inverter</u> Maximum system voltage (DC)	<u>Photovoltaic Module</u> Open circuit voltage			
Operating DC voltage range voltage	Maximum power			
DC maximum operating current	Short circuit current Maximum power current			
Maximum array short circuit current Operating AC voltage range	Maximum system voltage			
Nominal AC output voltage	Series fuse rating			
Maximum continuous output AC current Maximum output overcurrent protection				
Continuous power output				
 In order to verify sizing of all equipment, condu include all pertinent calculations detailed in the Electrical Code. DC Side: 				
 a.) N_{modules} x V_{oc} x 1.13 (T-690.7) = string V_{oc} b.) module I_{sc} x N_{strings} x 1.25 x 1.25 = DC conductor basis amperage (BA_{DC}) and Max. DC overcurrent amperage 				
c.) proposed conductor amperage (T-310.16 – 90°) x ambient Temp. correction factor (T-310.16)				
fill factor (T-310.15(B)(2)(a)) = minimum DC conductor amperage (result must be => BA _{DC} and =< the corresponding AWG entry at the 75° Col. of T310.16,				
factor in conductor size adjustments for all runs with AC Side:	1 > 3% VD)			
 a.) Inverter maximum output current x 1.25 = A AC overcurrent amperage 	AC conductor basis amperage (BA _{AC}) and Max.			
b.) proposed conductor amperage (T-310.16 – 90°) x ambient Temp. correction fac				
fill factor (T-310.15(B)(2)(a)) = minimum AC co (result must be => BA _{AC} and =< the corresponding A				
factor in conductor size adjustments for all runs with				
All PhotoVoltaic System installations require "Building Review" and a				
"Building Permit" or "Combination Permit".				
☐ The plan package shall contain the manufactur prefabricated, pre-engineered PhotoVoltaic Mod	•			
☐ The plan package shall contain engineered pla Module support and attachment systems.	ns for any/all <i>"field built"</i> PhotoVoltaic			
☐ The plan package shall contain all applicable e which system above is utilized.	ngineered attachment details regardless of			
The undersigned individual certifies all of the included in the photovoltaic plan package.	ne information above has been			
Print Name				
Signature	Date			